(d) In order to achieve the objective of socio-economic development of Scheduled Tribes, Govt. of India has adopted a strategy known as Tribal Sub Plan (TSP). Under this strategy various schemes for socio-economic development under Centre/State Sectors are being implemented to solve the problems of tribes in the States including Madhya Pradesh. Ministry of Tribal Affairs provides Special Central Assistance (SCA) to TSP States/UTs as an additive to their own resources.

Use of rubber bearing in construction

3615. SHRI RAMACHANDRA KHUNTIA: Will the Minister of URBAN DEVELOPMENT AND POVERTY ALLEVIATION be pleased to state:

(a) whether Government are aware that rubber bearing is useful and resistant to natural hazards such as earthquake and cyclone and in Japan many multi-storey buildings have been supported on rubber bearings isolators;

(b) if so, whether Government have any plan to use rubber bearings in construction of multi-storey buildings for protection from earthquakes;

(c) if so, the details thereof; and

(d) the steps taken by Government to develop indigenous technology for rubber bearing for use in construction industry?

THE MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT AND POVERTY ALLEVIATION (SHRI BANDARU DATTATRAYA) : (a) Yes, Sir.

(b) and (c) The Technical Committee of Bureau of Indian Standards dealing with earthquake resistant construction has made following provisions in the Foreword of revised Indian Standards IS: 1893 Criteria for Earthquake Resistant Design and Construction of Structures Part-I General Provisions of Building.

"Base isolation and energy absorbing devises may be used for earthquake resistant design. Only standard devices having detailed experimental data on the performance should be used. The designer must demonstrate by detailed analyses that these devices provide sufficient protection to the buildings and equipment as envisaged in this Code. Performance of locally assembled isolation and energy

absorbing devices should be evaluated experimentally before they are used in practice. Design of buildings and equipment using such device should be reviewed by the Competent Authority.

Base isolation systems are found useful for short period structures, say less than 0.7 sec. including soil—structure material".

The above provision would facilitate the adoption of such technology in the country with due consideration of its performance and quality control.

Government is open to adopt base isolation technique for buildings wherever necessary. As a beginning, recently in Gujarat the new Bhuj hospital building has been designed and being constructed using Lead Rubber Bearing in collaboration with experts from New Zealand.

The experience of this building will help in extending the above technology to other important structures.

(d) Possibility of transfer of technology with Malaysia Rubber Board for manufacture of rubber bearing is under consideration by the scientific community in the country.

Experts are also engaged in developing guidelines and methods to use this technology of base-isolation for different types of buildings in earthquake prone regions.

Drinking water from Narmada to Jabalpur Cantonment

†3616. SHRI P.K. MAHESHWARI : Will the Minister of URBAN DEVELOPMENT AND POVERTY ALLEVIATION be pleased to state:

(a) whether any scheme to provide drinking water from Narmada river to the inhabitants of Jabalpur Cantonment is under consideration of Government;

(b) if so, whether Government have not accorded their sanction so far for implementation of this scheme;

(c) if so, the reasons therefor and since when this project is pending with the Government for obtaining NOC;

†Original notice of the question was received in Hindi.